



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/766,605  
Source: JFWO  
Date Processed by STIC: 10/22/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/dbc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/766,605

DATE: 10/22/2004

TIME: 13:06:37

Input Set : A:\SBIO\_0002D1.txt  
 Output Set: N:\CRF4\10222004\J766605.raw

4 <110> APPLICANT: Chumakov, Peter and Chenchik, Alex  
 6 <120> TITLE OF INVENTION: Reporter Vectors for Gene Function Analysis  
 9 <130> FILE REFERENCE: SBIO/0002.D1  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/766,605  
 C--> 12 <141> CURRENT FILING DATE: 2004-01-27  
 14 <160> NUMBER OF SEQ ID NOS: 20  
 16 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 43  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: human  
 23 <220> FEATURE:  
 24 <221> NAME/KEY: promoter  
 25 <222> LOCATION: (1)...(7)  
 27 <221> NAME/KEY: misc\_RNA  
 28 <222> LOCATION: (8)...(43) (30)  
 29 <223> OTHER INFORMATION: n=a,t,g,c  
 W--> 31 <400> 1  
 W--> 32 ggacgagnnnn nnnnnnnnnn nnnnnnnnnn aattcatctta tgt 43  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 43  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: human  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: misc\_RNA  
 41 <222> LOCATION: (7)...(43) (34)  
 42 <223> OTHER INFORMATION: n=a,t,g,c  
 44 <400> SEQUENCE: 2  
 W--> 45 cctgctccta gnnnnnnnnn nnnnnnnnnn nnnngtagat aca 43  
 47 <210> SEQ ID NO: 3  
 48 <211> LENGTH: 59  
 49 <212> TYPE: DNA  
 50 <213> ORGANISM: human  
 52 <220> FEATURE:  
 53 <221> NAME/KEY: misc\_RNA  
 54 <222> LOCATION: (7)...(53)  
 56 <400> SEQUENCE: 3  
 57 gatccggatg atctggatcc accaattcaa gagattggtg gatccagatc atcttttg 59  
 59 <210> SEQ ID NO: 4  
 60 <211> LENGTH: 59  
 61 <212> TYPE: DNA  
 62 <213> ORGANISM: human  
 64 <220> FEATURE:

Does Not Comply  
 Corrected Diskette Needed

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Input Set : A:\SBIO\_0002D1.txt  
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```

65 <221> NAME/KEY: misc_RNA
66 <222> LOCATION: (3)...(59)
68 <400> SEQUENCE: 4
69 gcctactaga cctaggtggtaaagttctct aaccacccatgtctaa 59
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 75
73 <212> TYPE: DNA
74 <213> ORGANISM: human
76 <220> FEATURE:
77 <221> NAME/KEY: misc_RNA
78 <222> LOCATION: (7)...(69)
80 <400> SEQUENCE: 5
81 gatccgggttgcatctaccaggcgtttcaaga gaaacaagtc ttggggatc 60
82 cagatcatcttttg 75
84 <210> SEQ ID NO: 6
85 <211> LENGTH: 69
86 <212> TYPE: DNA
87 <213> ORGANISM: human
89 <220> FEATURE:
90 <221> NAME/KEY: misc_RNA
91 <222> LOCATION: (3)...(59)
93 <400> SEQUENCE: 6
94 gcccaactaga cctagatggttcgaaaggttc tctttgttca gaaccactag gtcttagtata 60
95 aaaacttaa 69
97 <210> SEQ ID NO: 7
98 <211> LENGTH: 30
99 <212> TYPE: DNA
100 <213> ORGANISM: human
102 <220> FEATURE: (9)
103 <221> NAME/KEY: unsure
104 <222> LOCATION: (8)...(21)
105 <223> OTHER INFORMATION: n=a,t,g,c
107 <400> SEQUENCE: 7
W--> 108 tggaaaaannnnnnnnnnnttttagag 30
110 <210> SEQ ID NO: 8
111 <211> LENGTH: 30
112 <212> TYPE: DNA
113 <213> ORGANISM: human
115 <220> FEATURE:
116 <221> NAME/KEY: unsure
117 <222> LOCATION: (13)...(25)
118 <223> OTHER INFORMATION: n=a,t,g,c
120 <400> SEQUENCE: 8
W--> 121 acccttttttcnnnnnnnnnnnnnatctc 30
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 31
125 <212> TYPE: DNA
126 <213> ORGANISM: human
128 <220> FEATURE:

```

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```

129 <221> NAME/KEY: misc_RNA
130 <222> LOCATION: (6)...(31)
131 <223> OTHER INFORMATION: Viral vector sequence
133 <400> SEQUENCE: 9
134 aaaggatgat ctggatccac caagacttgt t                                31
136 <210> SEQ ID NO: 10
137 <211> LENGTH: 31
138 <212> TYPE: DNA
139 <213> ORGANISM: human
141 <220> FEATURE:
142 <221> NAME/KEY: misc_RNA
143 <222> LOCATION: (2)...(27)
144 <223> OTHER INFORMATION: Viral vector sequence
146 <400> SEQUENCE: 10
147 ctactagacc tagtggttc tgaacaaaaaa a                                31
149 <210> SEQ ID NO: 11
150 <211> LENGTH: 59
151 <212> TYPE: DNA
152 <213> ORGANISM: human
154 <220> FEATURE:
155 <221> NAME/KEY: misc_RNA
156 <222> LOCATION: (17)...(42)
157 <223> OTHER INFORMATION: n=a,t,g,c
159 <400> SEQUENCE: 11
W--> 160 agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt cttctacga 59
162 <210> SEQ ID NO: 12
163 <211> LENGTH: 19
164 <212> TYPE: DNA
165 <213> ORGANISM: human
167 <220> FEATURE:
168 <221> NAME/KEY: primer_bind
169 <222> LOCATION: (11)...(19)
170 <223> OTHER INFORMATION: Viral vector sequence
172 <400> SEQUENCE: 12
173 acgcaggtgt agcagaaga                                         19
175 <210> SEQ ID NO: 13
176 <211> LENGTH: 59
177 <212> TYPE: DNA
178 <213> ORGANISM: human
180 <220> FEATURE:
181 <221> NAME/KEY: misc_RNA
182 <222> LOCATION: (17)...(42)
183 <223> OTHER INFORMATION: n=a,t,g,c
185 <400> SEQUENCE: 13
W--> 186 agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt cttctacga 59
188 <210> SEQ ID NO: 14
189 <211> LENGTH: 20
190 <212> TYPE: DNA
191 <213> ORGANISM: human

```

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```

193 <220> FEATURE:
194 <221> NAME/KEY: primer_bind
195 <222> LOCATION: (1)...(11)
196 <223> OTHER INFORMATION: Viral vector sequence
198 <400> SEQUENCE: 14
199 cagaagatgc tcacgacgct
201 <210> SEQ ID NO: 15
202 <211> LENGTH: 78
203 <212> TYPE: DNA
204 <213> ORGANISM: human
206 <220> FEATURE:
207 <221> NAME/KEY: misc_RNA
208 <222> LOCATION: (27)...(52)
209 <223> OTHER INFORMATION: n=a,t,g,c
211 <400> SEQUENCE: 15
W--> 212 acgcagggt agcagaagac taaaagnnnn nnnnnnnnnn nnnnnnnnnn nnttttatgt 60
213 cttctacgag tgctgcga
215 <210> SEQ ID NO: 16
216 <211> LENGTH: 78
217 <212> TYPE: DNA
218 <213> ORGANISM: human
220 <220> FEATURE:
221 <221> NAME/KEY: misc_RNA
222 <222> LOCATION: (27)...(52)
223 <223> OTHER INFORMATION: n=a,t,g,c
225 <400> SEQUENCE: 16
W--> 226 tgcgtccaca tcgttctg atttcnnn nnnnnnnnnn nnnnnnnnnn nnaaaataca 60
227 gaagatgctc acgacgct
229 <210> SEQ ID NO: 17
230 <211> LENGTH: 30
231 <212> TYPE: DNA
232 <213> ORGANISM: human
234 <220> FEATURE:
235 <221> NAME/KEY: misc_RNA
236 <222> LOCATION: (5)...(30)
237 <223> OTHER INFORMATION: n=a,t,g,c
239 <400> SEQUENCE: 17
W--> 240 aaagnnnnnn nnnnnnnnnn nnnnnnnnnn 30
242 <210> SEQ ID NO: 18
243 <211> LENGTH: 30
244 <212> TYPE: DNA
245 <213> ORGANISM: human
247 <220> FEATURE:
248 <221> NAME/KEY: misc_RNA
249 <222> LOCATION: (1)...(26)
250 <223> OTHER INFORMATION: n=a,t,g,c
252 <400> SEQUENCE: 18
W--> 253 nnnnnnnnnn nnnnnnnnnn nnnnnnaaaa 30
255 <210> SEQ ID NO: 19

```

RAW SEQUENCE LISTING  
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Input Set : A:\SBIO\_0002D1.txt  
Output Set: N:\CRF4\10222004\J766605.raw

256 <211> LENGTH: 44  
257 <212> TYPE: DNA  
258 <213> ORGANISM: human  
260 <220> FEATURE: (10)  
261 <221> NAME/KEY: mRNA  
262 <222> LOCATION: (9)...(35)  
263 <223> OTHER INFORMATION: n=a,t,g,c  
265 <400> SEQUENCE: 19  
  
W--> 266 tggaaaaagn nnnnnnnnnn nnnnnnnnnn nnnnntttt agag 44  
268 <210> SEQ ID NO: 20  
269 <211> LENGTH: 44  
270 <212> TYPE: DNA  
271 <213> ORGANISM: human  
273 <220> FEATURE: (10)  
274 <221> NAME/KEY: misc RNA  
275 <222> LOCATION: (9)...(35)  
276 <223> OTHER INFORMATION: n=a,t,g,c  
278 <400> SEQUENCE: 20  
  
W--> 279 accctttcn nnnnnnnnnn nnnnnnnnnn nnnnnaaaaa tctc 44

RAW SEQUENCE LISTING ERROR SUMMARY  
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Input Set : A:\SBIO\_0002D1.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28  
Seq#:1; N Pos. 29,30  
Seq#:2; N Pos. 12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31  
Seq#:2; N Pos. 32,33,34  
Seq#:7; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21  
Seq#:8; N Pos. 13,14,15,16,17,18,19,20,21,22,23,24,25  
Seq#:11; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36  
Seq#:11; N Pos. 37,38,39,40,41,42  
Seq#:13; N Pos. 17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36  
Seq#:13; N Pos. 37,38,39,40,41,42  
Seq#:15; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:15; N Pos. 47,48,49,50,51,52  
Seq#:16; N Pos. 27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46  
Seq#:16; N Pos. 47,48,49,50,51,52  
Seq#:17; N Pos. 5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25  
Seq#:17; N Pos. 26,27,28,29,30  
Seq#:18; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23  
Seq#:18; N Pos. 24,25,26  
Seq#:19; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29  
Seq#:19; N Pos. 30,31,32,33,34,35  
Seq#:20; N Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29  
Seq#:20; N Pos. 30,31,32,33,34,35

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/766,605

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Input Set : A:\SBIO\_0002D1.txt

Output Set: N:\CRF4\10222004\J766605.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number  
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:31 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:226 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0